Section 1. Identification

Product identifier: Hydro-Biodigesters
Other means of identification: HBD-O
Product Description: HBD Hydro-Biodigesters Oil Waste Formula, Dry Powder
Recommended use: Not available.
Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information:
Supplier
Company name: Hydro Engineering, Inc.
Address: 865 W 2600 S
Salt Lake City, UT 84119
Telephone: 800-247-8424
Website: http://www.hydroblaster.com
Emergency phone number: Chemtrec Within US & Canada: 800-424-9300

Section 2. Hazard(s) identification

Eyes: May cause irritation
Skin: May cause slight irritation
Inhalation: Inhalation of dust in high concentrations may cause irritation of respiratory system
Ingestion: Non-toxic by ingestion

Physical and Chemical Hazards: Possible explosive dust hazard typical of fine-powder organic substances.

Section 3. Composition/information on ingredients

Description: Powdered Microbial-Cultures and Enzymes

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>% Composition</th>
<th>OSHA – PEL</th>
<th>ACGIH – TLV-TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whey (as nuisance dust, Total)</td>
<td>92129-90-3</td>
<td>&gt;90%</td>
<td>15mg/m3</td>
<td>10mg/m3</td>
</tr>
<tr>
<td>Hydrated Silicon Dioxide (as nuisance dust, Total)</td>
<td>7631-86-9</td>
<td>&lt;1%</td>
<td>15mg/m3</td>
<td>10mg/m3</td>
</tr>
<tr>
<td>Freeze-dried microbial cultures and enzymes</td>
<td>Trade Secret</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td></td>
</tr>
</tbody>
</table>

Exact percentages of ingredients, microbial species, and enzyme types are withheld in order to protect trade secrets.

Section 4. First-aid measures

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes. If irritation persists, consult a physician.
Skin contact: Wash off immediately with plenty of water. If irritation persists, consult a physician.
Inhalation: If respiratory irritation or distress occurs, remove victim to fresh air. Seek medical attention if respiratory irritations or distress continues.
Ingestion: Clean mouth with water and afterwards drink plenty of water. If symptoms persist, call a physician.

Notes to Physician: Treat symptomatically.
Section 5. Fire-fighting measures

Flammable properties
Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Suitable extinguishing methods
Use water-spray, fog, carbon-dioxide, foam, or dry chemical

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus with pressure demand and full protective gear.

Section 6. Accidental release measures

Personal precautions, protective equipment, and emergency procedures
Avoid contact with skin and eyes

Methods for containment
Prevent dust cloud

Methods for cleanup
Sweep or scoop into suitable container for disposal. Avoid dust formation. After product recovery, flush area with water.

Section 7. Handling and storage

Precautions for safe handling
Avoid inhalation, ingestion, and contact with skin and eyes.

Conditions for safe storage, including any incompatibilities.
Store in original container. Keep container tightly closed. Check the Product Description for storage temperature.

Technical Measures/Precautions
This product may present a dust explosive hazard, minimize dust generation and accumulation.

Section 8. Exposure controls/personal protection

Exposure Guidelines
OSHA PEL 15mg/m3 ACGIH TLV 10mg/m3

Occupational Exposure Controls

Engineering Measures
Ensure adequate ventilation. Local exhaust ventilation of dust at the point of generation.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practices.

Personal Protective Equipment (PPE)

Eye/Face Protection
Tightly fitting safety goggles

Skin and Body Protection
Wear protective gloves/clothing

Respiratory Protection
No protective equipment needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation, appropriate respirator, or evacuation may be required.

Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Off-white to tan</td>
</tr>
<tr>
<td>Physical State</td>
<td>Powdered Solid</td>
</tr>
<tr>
<td>Melting/Freezing Point</td>
<td>Unknown</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Unknown</td>
</tr>
<tr>
<td>Flammability</td>
<td>Must be preheated</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Unknown</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Very Soluble</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Unknown</td>
</tr>
<tr>
<td>Odor</td>
<td>Dairy/fermentation product</td>
</tr>
<tr>
<td>pH</td>
<td>5.5-6.5 (10% solution)</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>Unknown</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Unknown</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td>Unknown</td>
</tr>
<tr>
<td>Density</td>
<td>0.80g/cm3, tapped</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Unknown</td>
</tr>
</tbody>
</table>
Section 10. Stability and reactivity
Reactivity
Avoid contact with strong oxidizers
Chemical Stability
Stable
Hazardous Polymerization
Will not occur
Hazardous Decomposition
Combustion results in carbon monoxide and carbon dioxide
Conditions to Avoid
Avoid dust formation, heat, flames, and sparks

Section 11. Toxicological information
Acute Toxicity
Oral
None Known
Dermal
None Known
Inhalation
No data available

Irritation
Eye
Dust contact with the eyes can lead to mechanical irritation
Skin
Prolonged or repeated contact may dry skin or cause irritation.
Respiratory
Inhalation of dust in high concentrations may cause irritation of the respiratory system.

Ingestion
May cause temporary gastrointestinal discomfort

Sensitization
May cause sensitization of susceptible persons.

Effects of Short and Long-Term Exposure
No data available

Symptoms of Exposure
Possible irritation to eyes, skin, or respiratory system

NTP Report on Carcinogens / IARC Monographs
Not Listed

Potential OSHA Carcinogen
Not Listed

Section 12. Ecological information
Persistence and Degradability
No data available; readily biodegradable components and viable microorganisms
Ecotoxicological Information
No data available
Adverse effects
None Expected

Section 13. Disposal considerations
This material is not considered hazardous wastes according to Federal regulations (40-CFR-261). Consult local, regional, or state regulations for additional requirements.

Section 14. Transport information
Not classified as dangerous with respect to transport regulations

Section 15. Regulatory information
Hazard Rating

<table>
<thead>
<tr>
<th></th>
<th>HMIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>PPE</td>
<td>E</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Health Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temporary or minor injury may occur</td>
<td>2</td>
</tr>
<tr>
<td>Must be preheated before ignition will occur.</td>
<td>1</td>
</tr>
<tr>
<td>Normally stable</td>
<td>0</td>
</tr>
<tr>
<td>Safety Glasses, Gloves, Dust Respirator</td>
<td>E</td>
</tr>
</tbody>
</table>
### U.S. Federal Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>SARA 313 – Threshold Values</th>
<th>CERCLA/SARA – Section 302 Extremely Hazardous</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freeze-dried Microbial Mixture</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

### U.S. State Regulations

California – This product does not contain any Proposition 65 Chemicals

### Section 16. Other information, including date of preparation or last revision

**Issue date** 27-September-2002  
**Revision date** 09December20

**Disclaimer**

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